

Ivanov-Mumzhiyeva, V. G.

The effect of paraffin-emulsion lubricant on adhesion of epoxy resins to glass fibers.

AN SSSR INSTITUT KHIMICHESKOY FIZIKI, LABORATORIYA
ARMIROVANNYKH PLASTIKOV, FIZIKO-KHIMIYA I MEKHANIKA
ORIENTIROVANNYKH STEKLO-PLASTIKOV, 1967, pp 73-76
AIR/FTD-HT-23-261-68

Modification of the Adhesive Properties of Polymer
Fibers by Grafting of Vinyl Monomers, by
A. I. Kurilenko, L. B. Aleksandrova, et al. 7 pp
RUSSIAN, rpt, AN SSSR, Institut Khimicheskoy
Fiziki Laboratoriya Androvannykh Plastikov.
Fiziko-Khimiya i Mekhanika Oliyentirovannykh
Sbektov Plastikov, 1967, pp 90-94.
AIR/FTD/MT-23-543-68

sci/materials
feb 70

401,030

Andreyevskaya, G. D.

Adhesion of epoxy resins to thin steel wires.

AN SSSR. INSTITUT KHIMICHESKOY FIZIKI. LABORATORIYA
ARMIROVANNYKH PLASTIKOV. FIZIKO-KHIMIYA I MEKHANIKA
ORIENTIROVANNYKH STEKLOPLASTIKOV, 1967, pp 95-100

AIR/FTD-MT-24-239-68

Basic Questions of the Mechanics of Monolithic
Oriented Glass-Reinforced Plastics, by
A. L. Rudinovich. 12 p.
RUSSIAN, rpt, AN SSSR Institut Khimicheskoy
Fiziki. Laboratoriya Armirovannykh Plastikov.
Fiziko-Khimiya i Mekhanika Oriyentirovannykh
Stekloplastikov, 1967, pp 101-110.
AIR/PTD/IT-23-543-68

sci/materials
feb 70

401,031

A Study of the Elastic Properties of Oriented
Fiberglass by the Impulse Acoustical Method, by
Ye. N. Kvanikov, A. I. Potapov. 8 pp.
RUSSIAN, rpt, AN SSSR, Institut Khimicheskoy
Fiziki. Laboratoriya Armirovannykh Plastikov.
Fiziko-Khimiya i Mekhanika Oriyentirovannykh
Steklo-Plastikov, 1967, pp 172-177.
AIR/PTD/AF-24-168-69

sci/ materials
dec 69

397,432
*6,640

Bending of a Rectangular Orthotropic Plate, by
V. S. Yakel'dik. 5 pp.
RUSSIAN, rpt, AN SSSR. Institut Khimicheskoy
Fiziki. Fiziko-Khimiya i Mekhanika Oriyentiro-
vannykh Stekloplastikov, 1967, pp 178-182.
AIR/PID/PL-23-965-68

sci/material
nov 69

397,022

Zambakhidze, D. V.

Procedure for determination of creep characteristics of oriented glass-fiber-reinforced plastics at room temperature and above. 7 pp.

AN SSSR. INSTITUT KHIMICHESKOY FIZIKI. LABORATORIYA
ARMIROVANNIKH PLASTIKOV. FIZIKO-KHIMIYA I MEKHANIKA
ORIENTIROVANNYKH STEKLOPLASTIKOV, 1967, pp 224-229
AIR/FTD-HT-23-779-68

Chlorination of Propylene on Copper Oxides
Studied by Infrared Spectroscopy, by
K. P. Zhdanova, A. A. Filippova, et al. 8 pp.
RUSSIAN, per, AN SSSR Institut Khimicheskoy
Fiziki. Problemy Kinetiki i Kataliza, No 12,
1968, pp 211-215.
AIR/PTD/ET-24-177-69

sci/materials
mar 70

404,377

Accuracy of Problem Solution Using a DDA
(U) A) with Monitoring and Correction, by
Ye. I. Perovskaya, 9 pp.
RUSSIAN, per, AN SSSR. Institut Kibernetiki.
Vychislitel'naya Tekhnika v Upravlenii,
1966, pp 70-76.
AIR/FTD/MT-24-320-67

Sci-Electronics
Nov 68

366,306

Digital Differential Analyzer
"Navigator", by A. A. Gurakov,
Yu. H. Kamyayev, 10 pp.
RUSSIAN, bk. AN USSR, Institut
Kibernetiki. Vychislitel'naya Tekhnika
i Upravleniye, 1966, pp 127-133.
P100227368-V
FTD-HT-23-965-67

Sci/Electro-Electri Engr
Sep 68

364,312

Universal Logic Operation Unit for Serial
Mode Digital Differential Analysers, by
Yu. V. Kovachich, 6 pp.
RUSSIAN, per, AN SSSR. Institut Kibernetiki.
Vychislitel'naya Tekhnika i Upravleni
1966, pp 231-235.
AIR/FTD/MT-24-320-67

Sci-Electronics
Nov 68

366,307

Maksimov, G. Yu.

Certain questions in the design of space vehicles with triaxial orientation. 10 pp.

AN SSSR. INSTITUT KOSMICHESKIKH ISSLEDOVANIY, 1970,
pp 1-16

AIR/FTD-HT-23-196-71

AIR-FTD-HT-23-900-70

Andriyevskiy, A. Ye.

Highly sensitive modulation radiometer on the 3.5-cm wavelength. 24 pp.

AN SSSR. INSTITUT KOSMICHESKIKH ISSLEDOVANIY. Preprint 52, 1971, pp 1-26

AIR/FTD-MT-24-47-73

REQ TR CHECK

18-01-73

T048

PROBLEMS ON THE USE OF RADIOPHYSICAL METHODS
IN THE INVESTIGATION OF THE ATMOSPHERE AND
THE EARTH'S SURFACE WITH SPACE INSTRUMENTS
PREPRINT 112.

KHODAREV, YU K, ET AL

UR: AN SSSR. INSTITUT KOSMICHESKIKH
ISSLEDOVANIY. PREPRINT 112, 1972, pp. 1-50
MOSCOW

Process in az

MT73-24-0048

Electrocrystallization of Metals, by
A. P. Kapustin, An. N. Trofimov, 72 pp.
RUSSIAN, bk, Akademiia Nauk SSSR, Institut
Kristallografiy, Moskva, 1969
*CFSTI TT 70-50036

Sci/mat
Jan 70

399,701

Investigation of Quality of Crystals Using Ruby
as an Example, by S. V. Grun-Grzhimaylo,
M. V. Klassen-Neklyudova. 20 pp.
RUSSIAN, bk, NI SSSR, Institut Kristallografii.
Most Kristallov, 1968, pp 1-18.
ANU/PID/PI-24-293-69

sci/physics
apr 70

404,518

Exposure and Investigation of Dislocations in
Crystals by Different Methods, by
N. V. Klassen-Neklyudova. 24 pp.
RUSSIAN, bk, AN SSSR. Institut Kristallografii.
Rest Kristallov, 1968, pp 19-41.
AIR/FID/II-24-293-69

sci/physics
apr 70

404,519

Determination of the Concentration of Cr^{3+} in
Red Crystals of Ruby by Absorption Spectra, by
S. V. Grun-Gruzinylo, L. G. Chentsova, et al.
5 pp.

RUSSIAN, bk, AN SSSR. Institut Kristallografi.
Mosk Kristallo, 1968, pp 50-54.
AKR/PTD/MC-24-293-69

sci/physics
apr 70

404,520

Methods of Investigation of Heterogeneity in
Indices of Refraction of Crystals, by
I. N. Guseva, N. M. Melankholin, et al. 8 pp.
RUSIAN, bk, AN SSSR Institut Kristallografii.
Rost Kristallov, 1968, pp 59-65.
AIR/FTD/IT-24-293-69

sci/physics
apr 70

404,521

Orientation of Crystals and Investigation of
Their Optical Anomaly, by S. V. Grun-Grzhinaylo,
T. N. Pogodina. 7 pp.
RUSSIAN, bk, AN SSSR. Institut Kristallografii.
Rost Kristallov, 1968, pp 67-71.
AIR/FID/IT-24-293-69

sci/physics
apr 70

404,522

The Effect of Anisotropy of Properties of Semiconductor Crystals on Segregation of Impurities in a Growing Crystal, by Yu. M. Kulish, A. P. Vyatkin. 10 pp.
RUSSIAN, per, AN SSSR, Institut Kristallografii.
Dokl. Akad. Nauk SSSR, Vol 8, 1968, pp 72-77.
ADN/PHD/II-24-236-69

sci/physics
feb 70

402, 764

Measurement of Internal Stresses in TiO_2 Crystals
of Corundum, by E. A. Chernysheva. 9 pp.
RUSSIAN, bk, AN SSSR Institut Kristallografi.
Int Kristallov, 1968, pp 78-84.
AIR/INT/IL-24-293-69

sci/physics
apr 70

404,523

Determination of the Value of Mutual Disorientation of Blobs in Crystals of Ruby by the Optical Method, by N. V. Gliki. 11 pp.
RUSSIAN, bk, AN SSSR. Institut Kristallografii.
Izest Kristallov, 1968, pp 84-92.
ATR/FTD/IT-24-293-69

sci/physics
apr 70

404,524

Differential Calorimeter With Thermal Bridge for
Measurement of Energy of a Laser, by
B. K. Sevast'yanov, I. Ye. Lifshits, et al. 7 pp.
RUSSIAN, Uk, AN SSSR, Institut Kristallografii.
Izvestiia Kristallov, 1968, pp 93-97.
AIR/FTD/IT-24-293-69

sci./physics
apr 70

404,4 525

Instruments for Measurement of Pulsed Light
Energy, by V. P. Orskhova, B. K. Sevast'yanov,
et al. 6 pp.
RUSSIAN, bk, AN SSSR, Institut Kristallografi.
Rost Kristallov, 1968, pp 98-101.
AIR/FTD/MI-24-293-69

sci/physics
apr 70

404,526

Mechanism of the Oriented Growth of Crystalline
Substances (Epitaxy), by Yu. D. Chistyakov. 11 pp
RUSSIAN, per, AN SSSR, Institut Kristallografii,
Dokl. Akad. Nauk, Vol 8, 1968, pp 258-263.
ATR/PID/44-24-236-69

sci/materials
feb 70

402,765

Deviation from Homogeneity in Single Crystals of
Gallium Phosphide-Gallium Arsenide Solid Solutions
Grown by the Epitaxial Method, by A. V. Lishina,
V. N. Maslov, et al.

RUSSIAN, per, AN SSSR. Institut Kristallografii.
Rost Kristallov, Vol 8, 1968, pp 273-277.

ADP/PH/MI-24-236-69

sci/chemistry
fiab 70

402,766

Some Instances of Change in the Habit of Crystals
During Equitaxial Growth, by I. Bonev. 13 pp
RUSSIAN, per, AN SSSR, Institut Kristallografi.
Dokl. Akad. Nauk SSSR, Vol 8, 1968, pp 278-284.
AKR/PH/11-24-236-69

sci/chem
feb 70

402,767

Kinetics of the Spontaneous Transformation of
the Surface of a Crystal-Vapor System, by
D. Nenov, A. Georgiyev. 13 pp.
RUSSEAN, bk, IN SSSR, Institut Kristallografii,
Post Kristallov, Vol 8, 1968, pp 316-322.
AIR/FTD/AF-24-236-69

sci/chem
feb 70

402,768

Growth and Dislocation Models of Crystals, by
T. A. Gerasodina, N. N. 'Mofitai', 9 pp.
RUSSIAN, bk, AN SSSR, Institut Kristallografi.
Post Kristallov, Vol 8, 1968, pp 356-361.
ATR/MD/AT-24-236-69

sci/chem
feb 70

402,769

Physical-Statistical Interpretation of Abrasive
Wear of Solids, by L. S. Tsesnak. 37 pp.
RUSSIAN, per, AN USSR. Inst Mashinovedeniya Traniya
i Innes v Mashinakh, No 20, 1968, pp 5-47.
AIR/FTD/MF-24-454-69

Sci-Mat
Jul 70

Abrasive Wear Resistance of Structural Steels
Depending on the Heat Mechanical Treatment
(High Temperature and Low Temperature Treatment),
by V. Ya. Zharkov, M. M. Kmitov. 10 pp.
RUSSIAN, par, AN SSSR, Institut Mashinovedeniya,
Tekhnika i Iznos v Mashinakh, Iznos i Antifrict-
siionnyye Svoystva Materialov, No 20, 1968,
pp 65-71.
AIR/FTD-HT-23-38-70

sci/materials
may '70

406,887

The Effect of the Dispersion of Oils in Air on the
Seizure and Pitting of Hardened Steel, by
M. D. Baberod'ko, I. I. Solomanko, 15 pp.
RUSSIAN, par, AN SSSR, Institut Mashinovedeniya.
Traniya i Issues v Mashinakh, No 20, 1968,
pp 211-222.
AIR/FTD/MT-24-439-69

Sci-Mat

Tables of Atomic Wave Functions, by V. F. Brattsev,
72 pp.
RUSSIAN, rpt, Akad Nauk SSSR, Math. Institute,
1966.
AEC/LA-Tr-4106

Sci/Math
Jan 70

400,157

On the Relation Between the Characteristics of
Diffusion and the Creep of Metallic Compounds,
by A. Ya. Shinyayev.
RUSSIAN, per, Akad Nauk SSSR, Inst Metallurgie,
Conf Proceedings, 1966, pp 79-83.
*CFSTI TT 70-59064

Sci- *Mat*
June 70

Change in Properties During Aging of Aluminum Alloys,
by I. N. Fridlyander, 12 pp.
RUSSIAN, rpt, AN SSSR Institut Metallurgiy, 1968,
pp 90-92, 101.
ACSI J-8004.
FSTC-IT-23-236-70

Sci/Nat
May 70

405,099

REQ TR CHECK 5-6-19 BR70-1091

Interaction of hafnium with certain transition
metals

Svechnikov, V.N., Shurin, A.K.

Russ: AN SSSR. Institut metallurgii. Diagrammy
sostroyaniya metallicheskih sistem. obzor
issledovaniy, 1968, 153-156*In process as**HT-23-401-70**Negative
18 June 70*

Measuring of Thermal Conductivity of Metals at
High Temperature, by V. Ye. Ivanov,
V. M. Aronenko, et al. 13 pp.
RUSSIAN, rpt, AN SSSR Institut Metallurgii.
Experimental'naya Tekhnika i Metody Vysoko-
temperaturnykh Izmereniy, 1966, pp 30-37.
ATR/PTD/MT-24-354-68

sci/materials
may 69

381,122

An Investigation of the Niobium-Zirconium-
Manganese-Carbon System, by T. P. Fudorov,
Ya. I. Gladyshevskiy, et al. 14 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Ekspperimental'naya Tekhnika I Metody Vysoko-
temperaturnykh Izmereniy, 1966, pp 127-135.
ATR/FID/INT-23-334-68

sci/materials
mar 69

376,565

Physicochemical Theory of Heat Resistance and New
Heat-Resistant Titanium Alloys, by
I. I. Kornilov, T. T. Martova. 14 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgiy.
Fiziko-Khimicheskiye Issledovaniya Zharoprochnykh
Splavov, 1968, pp 57-64.
AIR/FTD/RT-23-286-70

Sci-Phys
Nov 70

On the Diffusion Soldering of Titanium, by
A. Ya. Shinyayev.
RUSSIAN, par, Akad Nauk SSSR, Inst Met Baikov.
(6th Conf on Titanium Metal), 1965, pp 305-308.
*CPSTI TT 70-59076

Sci- pub
June 70

The Behaviour of Bore and Cerium During the Melting
of Steel and Their Influence on Some Properties
of Stainless Steel, by I. I. Moshkovich, et al,
RUSSIAN, per. Akad. Nauk SSSR Inst. Met. A.A. Baikov
Fiz. Khim. Osnovy Proizv. Stali, 1967, pp 189-191,
BIBL 7570

Sai/Mat
Mar 70

404,056

An Evaluation of the Desulphurizing Ability
of Industrial Fluxes, Used for Electroslag
Remelting, by O.D. Modavskii and G.I. Zhmoidin,
RUSSIAN, per. Akad. Nauk SSSR. Inst. Met. A. A.
Baikov. Fiz. Khim. Osnovy Proizv. Stali, 1967,
pp 251-255.
BISI 7936

On the Surface of Interaction During Electromagnetic
Remelting, by M. M. Klyuyev, Yu. M. Mironov.
RUSSIAN, rpt, AN SSSR, Inst Met Naikov, F.K. Osnovy
Proizov Stali, 1967, pp 256-260.
BISI 7935

Sci-Mat
June 70

The Behavior of Nitrogen During Melting and Teeming
of Transformer Steel, by V. A. Alyavdin.
RUSSIAN, rpt, AN SSSR. Inst Met A.A. Baikov, Fiz
Khim Osnovy Proizv Stali, 1967, pp 367-369.
BISI 7602

Sci-Mat
June 70

The Structure of Ti-Fe Alloys, by T. A. Badayeva,
L. I. Danilevskaya. 9 pp.

Moscow, U.S.S.R. Institut Metallurgii.
Fiziko-Khimiya Splavov i Tverdogotivnykh Soyedineniy
s Tsvetnykh i Uranom, 1968, pp 15-20.

AKR/MTD/44-24-63-69

Enter book Translated. Filed Fiziko-Khimiya etc

sci/ materials
nov 69

397,130

N. V. Ageyev

*Thermal expansion of chromium and solid solutions with
a chromium base. 13 pp.*
*RUSSIAN, AN SSSR, Institut metallurgii. Issledovaniya
po sharoprochnym splavam, Vol 10, 1963, pp 15-22*
AIR/PTD-MT-24-1398-71

sept 72

SOME QUESTIONS of Technology in the Production
of Large-Dimension Forgings From Alloy V93, by
P. V. Tulyankin. 20 pp.
RUSSIAN, nat, AN SSSR, Institut Metallurgii.
Izdatkiya Spilavy i Metody ikh Obrabotki, 1968,
pp 79-90.
AIR/FTD/MT-24-231-69

sci/materials
mar 70

402,788

Investigation of the Mechanical Properties of
Foil Made From Aluminum And Certain of its
Binary Alloys, by M. Ye. Drita, Ye. S. Kadner.
et al. 12 pp.

RUSSIAN, bk, AN SSSR. Institut Metallurgii.
Lezkiye Spilavy i Metody ikh Obrabotki, 1968,
pp 114-121.
AIR/PAD/UT-24-231-69

sci/materials
mar 70

402,789

Investigation of Measured Stability of Deformed
Aluminum Alloys, by M. L. Kravkin, S.
S. I. Spektorov, et al. 13 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii,
Lekkiye Splavy i Metody Ikh Obrabotki, 1968,
PP 121-129
AIR/FTD/MT-24-322-69

sci/materials
may 70

406,858

Nature of the Fracture of Cast Aluminum Alloys
at Different Rates of Deformation, by
A. M. Korol'kov, L. P. Gerasimov, et al. 11 pp.
RUSSIAN, rpt. IN SSSR. Institut Metallurgii.
Legkiye Splavy i Metody Ikh Obrabotki, 1968,
pp 139-145
AIR/FTD/MO-24-322-69

sci/materials
may 70

408,859

Economics and Regions of Possible Application
of Cold Pressing of Aluminum-Based Alloys, by
I. L. Berlin, L. Kh. Raybarg. 11 pp.
RUSSIAN, in, AN SSSR. Institut Metallurgii.
Lezkiye Spilavy i Metody ikh Obrabotki, 1968,
pp 156-162.
AIR/FTD/MT-24-231-69

scu/materials
mar 70

402,790

Effect of Short-term Heating After Deformation
During Thermomechanical Treatment on Properties
of Alloy VT15 and its Welded Joints, by
G. Ye. Kainova, M. Kh. Shorshorov. 8 pp.
RUSSIAN, bk, AN SSSR. Institut Metallurgii.
Leckkiye Spolavy i Metody Ikh Obrabotki, 1968,
pp 212-225.
AIR/FTD/U-24-231-68

sci/materials
mar 70

402,799

Effects of Plastic Deformation and Annealing of
Damping of Ultrasonics in Magnesium and Magnesium
Alloys With Neodymium in the Megahertz Range of
Frequencies, by M. Ye. Drita, M. L. Fokhlin,
et al. 9 pp.
RUSIAN, bk, IN SSSR. Institut Metallurgii.
Leskiye Splavy i Metody ikh Obrabotki, 1968,
pp 225-230.
AIR/FTD/AT-24-231-69

sci/materials
mar 70

402,792

Theoretical Calculation of Damping of Ultrasonics
in Magnesium and Alloys Based on it, by
L. L. Pokhilin. 23 pp.

MASHIN, bk, AN SSSR. Institut Metallurgii.
Ingkiye Splavy i Mntody ikh Obrabotki, 1968,

pp 230-232.

AIR/FTD/MT-24-231-69

sci/materials
mar 70

402,791

Glazunov, S. G.

Garnissage (lined crucible) melting of titanium. 17 pp.

AN SSSR. INSTITUT METALLURGII. LEGKIYE SPLAVY I METODY

TRH OBRABOTKI, 1968, pp 237-247

AIR/FTD-MT-24-231-69

Zueman, L. L.

*Damping of ultrasonics in alloys of Mg-Cd and Mg-Zn
systems at frequencies of 10 and 20 MHz.*

AN SSSR. INSTITUT METALLURGII. LEGKIYE SPLAVY I METODY
IKH OBRABOTKI, 1968, pp 247-254
AIR/FTD-MT-24-231-69

Features of the Technology of Production of
Ingots and Semi-finished Products from Corrosion-
Resistant Titanium Alloys of Type 4201, by
N. P. Anoshkin, Ye. I. Oginskaya. 14 pp.
RUSSIAN, bk, AN SSSR Institut Metallurgii.
Legkiye Splavy i Metody ikh Obrabotka, 1968,
pp 254-261.
AIR/PTD/MT-24-231-69

sci/materials
mar 70

402,795

Investigation of Diffusion Solubility of Nickel
in β -Phase of Titanium and its Alloys, by
S. E. Donshteyn, T. A. Yemel'yanova, et al. 12 pp
RUSSIAN, in: AN SSSR. Institut Metallurgii.
Legkiye Splavy i Metody ikh Obrabotki, 1968,
pp 261-267.
AIR/FTD/AM-24-231-69

sci/materials
mar 70

402,796

Nonuniform Beta-Phase Decomposition in Titanium
Alloys VT15, by I. I. Novikov, O. V. Kasparova,
et al. 11 pp.

Moscow, bk, AN SSSR. Institut Metallurgii.
Lezkiye Splavy i Metody ikh Obrabotki, 1968,
pp 268-277.

AIR/FFD/MT-24-231-69

sci/materials
mar 70

402,797

Characteristics of Production of Thermally
Hardenable Titanium Alloys, by I. N. Kaganovich,
Ye. D. Igumenshchev, et al. 15 pp.

RUSSIAN, bk, AN SSSR Institut Metallurgii.
Legkiye Splavy i Metody ikh Obrabotki, 1968,
pp 282-286.

AIR/ITD/AT-24-231-69

sci/materials
mar 70

402,798

New Trends in the Planning and Construction of
Modern Rolling Mills, by P. I. Polukhin,
I. N. Potatov, et al. 12 p.
RUSSIAN, bk, AN SSSR Institut Metallurgii.
Lezkiye Spavy i Metody ikh Obrabotki, 1968,
pp 286-293.
AIR/ETD/IT-24-231-69

sci/materials
mar 70

402,800

Production of Pure Compact Tungsten and
Its Coatings by Deposition from Gaseous
Phase, by B. P. Kreyngauz, Ye. I. Pluzh-
nikova.
RUSSIAN, rpt, AN SSSR. Institut Metallur-
giy. Metallurgiya Tsvetnykh i Redkikh
Metallov, 1967, pp 158-167.
AIR/FTD/MT-24-246-68

Sci-Mat
Apr 69

380,343

The Effect of Various Additives on the Properties
of Tungsten, by V. N. Romanova, S. I. Ipatova,
et al. 12 pp.

RUSSIAN, rpt, NI SSSR. Institut Metallurgii.
Metallurgiya Vol'frama, Polibdana i Nidbiya,
1967, pp 142-149.

AIR/FID/MT-24-166-69

sci/materials
feb 70

401,135

Establishing the Techniques of Pressure Working
of New Metals and Alloys, by V. G. Oshpov,
B. V. Yegorov, 11 pp.

RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Naukashchennyye Sposoby i Plastichnost' pri
Dekompozitsionnoi Metallizatsii, 1966, pp 143-151.

FTD-MT-24-367-67

Sol-Hat
Oct 68

367.536

Distortion of the Crystalline Structure and
Density of the Dislocations in Molybdenum in
Various Stages of Refinement After Filing, by
Ye. M. Savitskiy & A. A. Babareko, 9 pp.
RUSSIAN, per. AN SSSR. Institut Metallurgii im.
A. A. Baikova. "Problemy Bal'ansy Metallurgii i
Fizicheskoy Khimii Metallov Spetsial." 1965.
pp 250-258. P100367417
FTD-HT-66-638

Sci/Int
Jan 68

318,323

Thermal Stability of Heat-Resistant Oxidation
Materials as Heat Shielding Coatings, by
M. K. Rybal'chenko. 14 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Poroshkovaya Metallurgiya v Novey Tekhnike,
1968, pp 53-63.
AIR/FTD/MT-24-311-69

sci/materials
may 70

Heat-resistant Material with Silicon Carbide
as a Base, by S. A. Tsukerman, V. Ye. Kvin.
6 pp.

RUSSIAN, rpt, AN SSSR. Institut Metallurgiy.
Poroshkovaya Metallurgiya i Novyye Tekhniki,
1968, pp 63-67.

AIR/FTD/MH-24-64-69

MH

Sci-Materials
Nov 69

395,877

D'yachenko, V.

*Influence of rhenium on the structure and the metal of a
welded joint of molybdenum alloy.*

AN SSSR. INSTITUT METALLURGII. RENTY V NOVY TEKHNIKE,
NOVOY TEKHNIKE, 1970, pp 93-97

FTD-HS-33-1453-72

Columbium Creep at High Stresses, by A. F. Orlov
7 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Struktura i Svoystva Zharoprodnykh Metall-
cheskikh Materialov, 1967, pp 93-96.
AIR/IND/IL-23-778-68

sci/ materials
sept 69

391,014

Preliminary Results of Study of High Temperature
Adhesive Action and Friction of Oxides and High
Melting Metals With Oxides in a Vacuum and in
Gas Media, by A.P. Semenov. V.V. Pozdnyakov.

8 pp.

RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Struktura i Svoystva Zharoprodnykh Metall-
cheskikh Materialov, 1967, pp 109-114.

ATR/FTD/INT-23-656-68

sci/materials

Specific Features of Alloying; Structure; and
Phase Composition of Nickel-chromium Heat-
Resistant Alloy With Columbium, by
K. I. Tannanov. 8 pp.

RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Struktura i Svoystva Zharoprotivnykh Metall-
chickikh Materialov, 1967, pp 127-132.
AIR/PTD/AT-23-770-68

sci/ materials
sept 69

391,015

High-temperature Strength and Physicochemical
Properties of Multicomponent Nickel Alloys,
by L. A. Ryabtsev, I. I. Kornikov. 7 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgiy.
Struktura i Svoystva Zharoprochnykh Metal-
licheskikh Materialov, 1967, pp 143-147.
AIR/PTD/HR-23-681-68

Sci-Materials
Nov 69

396,744

Certain Peculiarities of the Behavior of High-Temperature Alloys Under Cyclically Varying Temperatures, by V. I. Prosvirin, V. D. Morshikov. 6 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Struktura i Svoystva Zharoprotivnykh Metallicheskih Materialov, 1967, pp 172-176.
AIR/IND/IT-23-687-68

sci/ materials

Structure and Properties of the KhN60AlTiYu
(EP487) Alloy, by L. N. Zirina, G. F. Kosheleva,
et al. 9 pp.
RUSSIAN, rpt, IN SSSR, Institut Metallurgii.
Struktura i Svoystva Zharoproschnykh Metallicheskih
Materialov, 1967, pp 181-186.
AIR/MD/AT-23-449-68

sci/ materials
vol 60

222 222

High-Temperature Thermomechanical Treatment of
Large Steel Forgings, by V. D. Sadovskiy,
B. D. Titorov, et al. 5 pp.
RUSSIAN, per, AN SSSR. Institut Metallurgii.=
Struktura i Svoystva Zharoprochnykh Metallicheskikh.
Materialov, 1967, pp 246-248.
AIR/FTD/IT-23-1379-68

sci/ materials

nov 68

A New Method of Investigating the Processes
of Creep and Stress Relaxation in Metals
and Alloys, by A. A. Chishik. 18 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgiy.
Struktura i Svoystva Zharoprochnykh Metal-
licheskikh Materialov, 1967, pp 287-294.
AIR/PTD/MT-26-525-68

Sci-Materials
Nov 69

396,742

Shafarenko and Stress-rupture Strength of a B-alloy
of the Ti-Mo-Cr-Fe-Al System at High Temperatures,
by N. V. Agayev, S. G. Glazunov, et al. 10 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgiy Struktura
i Svoystva Zharoprochnyykh Metallicheskih Materialov,
1967, pp 294-300.
AIR/FTD/HT-23-175-70

Sci-Mat
June 70

High-Temperature Copper Alloys, by
A. M. Korol'kov, L. M. Gurova.
RUSSIAN, rpt, AN SSSR. Institute Metallur-
giy. Struktura i Svoystva Zharoprochnykh
Metallicheskikh Materialov, 1967,
pp 300-305.
AIR/FTD/HT-23-636-68

Sci-Phys
Apr 69

379,818

Comparative Study of Oxidability and Heat Resistance of Columbium-Base Alloys, by
O. S. Ivanov, I. I. Rayevskiy, et al. 12 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Struktura i Svoystva Zharoprotivnykh Metall-
durkikh Materialov, 1967, pp 316-323.
AIR/TH/ET-23-778-68

sci/materials
sent 69

391.016

Problems Arising from the Theory of Heat-
Resistance Alloys, by I. I. Koznilov, 15 pp.
RUSSIAN, per, AN SSSR. Institute Metallurgii.
Svoystva i Primeneniye Zharoprochnykh Splavov,
1966, pp 3-15.
AIR/FTD/IFT-23-110-68

Sci/Mater
Nov 69

395,969

The Production and Properties of Single Crystals
of Refractory Metals and Alloys, by
Ye. M. Savitskiy, G. S. Burdhanov, et al. 10 pp
RUSSIAN, rpt, AN SSSR Institut Metallurgii
Svoystva i Primeneniye Zharoprotivnykh Spлавov,
1966, pp 15-24.
AIR/ETD/IT-23-332-68

sci/ physics
sept 69

391,020

Certain regularities in the Softening Behavior
of Metals as a Function of Temperature, by
V. S. Ivanova, Yu. I. Ragozin. 7 pp.
RUSSIAN, rpt, NI SSSR. Institut Metallurgii.
Svoystva i Primeneniye Zharoprochnykh Splavov,
1966, pp 35-39.
AIR/PTD/AM-23-332-68

sci/ materials
sept 69

391,021

Strength and Ductility of Certain Single Phase
and Binary Manganese Based Alloys Obtained by
Electron Beam Melting, by B. A. Movchan,
I. S. Malashenko. 7 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Svoystva i Primeneniye Zhartprochnykh Splovov,
1966, pp 99-104.
AIR/PTD/MT-23-332-68

sci/ materials
sept 69

391,022

Physicochemical Investigation of the Alloys in
the System Niobium-Tungsten-Molybdenum-Chromium,
by D. I. Prokov'yev, I. V. Grun-Grzhiraylo. 7 pp
RUSSIAN, rpt, FI SSSR, Institut Metallurgii.
Svoistva i Primeneniye Zhanprochnykh Spлавov,
1966, pp 128-131.
AIR/FTD/MT-23-272-68

sci/materials
mar 70

404,410

Hardening of a Nickel-Base Alloy With Segregation
of a Phase With a Bcc Lattice, by
N. I. Daurinskaya, V. G. Chernyy. 10 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Svoystva i Primeneniye Zhareprochnykh Splavov,
1966, pp 153-158.
AIR/TTD/IR-23-312-68

sci/ materials
nov 69

397,266

Effect of Conditions of Heat Treatment of the
Ni-Cr-Ti-Al Alloy on the Lattice Constant of
the Segregation Phase, by V. V. Zhukov. 6 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Svoystva i Primeneniye Zharkoprochnykh Splavov,
1966, pp 159-162.
AIR/ETD/ET-23-332-68

sci/ materials
cont 60

201 022

Inter-crystalline Strength and Phase Composition
of Ni/Cr Based Alloys, by Ye. Ye. Levin,
Ye. M. Pivnik. 8 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii.
Svoystva i Primeneniye Zhargirovannykh Splavov,
1966, pp 183-189.
AIR/FTD/FT-23-332-68

sci/ physics
sept 69

391,024

The Effect of the Adsorption Activity of the Alloying Elements on the Character of Distribution of Excess Phases at the Grain Boundaries of Nickel Based Alloys, by V. Ye. Ol'shanstskiy, B. S. Natanov. 7 pp.

RUSSIAN, rpt, AN SSSR. Institut Metallurdi.
Svoystva i Primeneniye Zharoprochnykh Splavov,
1966, pp 194-200.

AIR/FTD/MT-23-332-68

sci/materials
sept 69

391,025

Economically Alloyed Heat-Resistant Alloys
EP404 and EP454, by R. P. Khamalakh,
I. A. Krasnova, et al. 6 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Svoistva i Primeneniye Zharoprotivnykh Splavov,
1966, pp 205-208.
AIR/PTD/AT-23-272-68

sci/materials
mar 70

404,411

A Study of the Kinetics of Hardening and Softening of Creep Resisting Alloys With the Object of Selecting the Temperature Ranges for Hot Plastic Deformation and Heat Treatment, by N. N. Zhetvin, Ya. L. Frid, et al. 7 pp. RUSSIAN, rpt., AN SSSR, Institut Metallurgii. Svoystva i Primeneniye Zharoprotivnykh Spлавov, 1966, pp 213-218. AIR/FID/INT-23-332-68

sci/ materials
sept 69

391,026

Investigation of the Creep Resistance of Alloys
of Tungsten With Niobium and Titanium, by
K. Yu. Lazareva, D. A. Prokoshkin, et al. 7 pp.
RUSSIAN, rpt, AN SSSR Institut Metallurgii.
Svoystva i Primeneniye Zhargoprochnykh Splavov,
1966, pp 280-285.
AIR/PID/MT-23-332-68
117-23-312-68

sci/ materials
sept 69

391,027

Investigation of the Oxidation of Niobium Alloyed
with Vanadium, Titanium and Zirconium, by
D. A. Prokoshkin, Ye. V. Vasil'yeva, et al. 6 pp.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Svoystva i Primeneniye Zharoprochnykh Spлавov,
1966, pp 285-290.
AIR/FID/AF-23-332-68

sci/ materials
sept 69

391,028

Effect of Imperfections of Crystal Structure on
Elastic and Inelastic Properties of Aluminum,
by T. Ya. Vaniyova, L. N. Larikov, et al. 6 pp.
RUSSIAN, ~~4pt~~ AN SSSR Institut Metallurgii.
Vnutrenneye Treniye v Metallakh i Spilavakh,
1966, pp 42-45.
AIR/PTD/PI-23-784-68

sci/ materials
sept 69

390,984

Some Methods for Studying Amplitude Dependent
Dissipation of Energy in a Material, by
A. P. Yakovlev. 10 pp.

RUSSIAN, bk, AN SSSR, Institut Metallurgii.
Vnutrennyye Tsenyev Metallakh i Splavakh,
1966, pp 157-163.

AIR/ETD/MT-23-784-68

sci/ physics
sept 69

390,985

Toward the theory of thermelastic Internal
Friction in a Solid Body, by Ya. S. Podstrigach,
R. N. Zhvets. 9 pp.

RUSSIAN, Uk, AN SSSR. Institut Metallurgii.
Vnutrennyye Treniya v Metallakh i Splavakh
1966, pp 216-221.

AIK/TID/IT-23-784-68

sci/materials
sept 69

390,986

Rolling of Metals and Alloys in Vacuum, by
A. V. Krupin and N. V. Yodina.
RUSSIAN, rpt. AN SSSR, Institut Nauchnoy Informatsii,
Itogi Nauki i Tekhniki, Prokatnoye i Valochil'noye
Proizvodstvo, 1966, pp 131-168. F100125068-V
FTD-MT-24-197-67

Sci-Phys
Jul 68

359,902